REPORT

ON

A GROUND MAGNETIC SURVEY

FLINT LAKE, N-W ONTARIO

March 31, 1974.

Chester J. Kuryliw, M.Sc., P. Eng.,
Consulting Geologist.

PROPERTY AND LOCATION

The property consists of one contiguous group of 31 claims, numbered:-

315316-332 inclusive (17)

315343-351 inclusive (9)

364464-468 inclusive (5)

The property is located at Flint Lake in the Kenora Mining Division of Northwestern Ontario about 15 miles east of the Town of Sioux Narrows that is located on Highway 75 on the eastern side of the Lake of the Woods.

INTRODUCTION

The claims in this group were staked during November and December, 1972 with 5 claims added in August, 1973.

Linecutting on grids with lines at 400 foot intervals was started in August, 1973 and completed in October, 1973. Linecutting over the land area was carried out by several groups of linecutters, first Don Labrie and G. Belanger of Timmins, then the group from Central Patricia I. Williams, A. Munroe, Morrice completed the lines. The Lake Ice grid lines were laid out by P. Dale and V. Poshner, of Kenora, Ontario. The Magnetic Survey operators were A. Munroe, Adrian Kuryliw, A. Watt and P. Dale, all under the supervision of this writer.

INSTRUMENT UNIT AND METHOD

A Sharpe M.F.1 Fluxgate Magnetometer was used to read the base lines and cross lines. The readings were recorded and plotted to the nearest half division on the scale (10 gammas). The corrected readings in Gammas were plotted above or below an arbitrary base level. The plotted readings indicate changes in the vertical component of the magnetic field.

In this field survey, an arbitrary base station was located near camp, at co-ordinates 16.E - 4.S on an island its arbitrary base value was chosen at 540 gammas, the base lines were then read at 100 foot station intervals along the base line and after about one hour the starting station was re-read to close the loop. By noting the total time interval and the number of stations read, corrections were then made for diurnal variations. In effect each base line station became a "check-in" station for cross lines. Only base line stations with low magnetic readings were used for "check-in" stations during the survey. Along cross lines, readings were taken on stations at 100 foot intervals and after about an hour the loop was closed and time intervals were noted for later diurnal change corrections. On some lines readings were taken at 50 foot stations where abrupt changes in magnetics occurred.

The results of this survey were corrected and plotted and then contoured on plans, scale 1" = 400 feet, a magnetic contour interval of 500' was chosen.

RESULTS OF THE MAGNETIC SURVEY

Some very strong magnetic highs associated with peridatite mapped by the writer occur at the southeast side of Claim 315330 and the east side of Claim 315326.

The magnetic highs on Claim 315318 probably represents a narrow band of Gabbro-peridatite conformable with the volcanic trends. The magnetic high on Claims 364464 - 364465 is interpreted to be a diabase dyke.

There are two magnetic highs of possible economic significance. One is the negative magnetic low anomaly on Claim 364467 on line 00-E at 42-N that couples with a magnetic high anomaly on line 4.W at 44.N. This magnetic low anomaly lies directly over the Thomas-Edison shaft site trenching along the mapped vein and shearing suggesting that hydrothermal silicification and/or stress conditions redistributed magnetite to form this anomaly with an apparent flat westerly plunge.

A very similar anomaly but of much greater length occurs on Claims 364467 and 315348. At 38-N the anomaly crosses the lines 4.W, 8.W and 12.W a flat westerly plunge is interpreted to the anomaly and this magnetic low which is ¼ mile in length is very similar to the magnetic anomaly over the Thomas-Edison "vein-shearing" gold bearing occurrence. This magnetic anomaly is also hidden under swampy overburden so it has never been explored and therefore provides a highly encouraging target that should be tested by diamond drilling for a gold bearing shear structure.

The andesitic volcanic rocks in the area of the Thomas-Edison shaft Exhibit A flat magnetic relief that is only 100-200 gammas above the rhyolite-dacite volcanics.

RECOMMENDATIONS

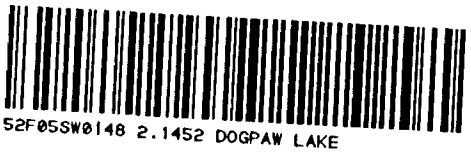
That at least 4 d.d. holes be drilled, two to test the flat westerly plunge of the Thomas-Edison gold bearing zone and the other two to test the westerly plunging anomaly couple at 38N on lines 4W, 8W and 12W.

Total footage 1000 feet. Est. Cost $12,000.00

C. J. Kuryliw.

File 2.1452

GEOPHYSICAL – GEOI
TECHNICAL I



TO BE ATTACHED AS AN AI
FACTS SHOWN HERE NEEL
TECHINICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

900

Type of Survey GEO PHYSICAL – MAGNETIC

Township or Area DOGPAW LAKE, DISTRICT OF KENORA.

Claim holder(s) CHESTER J. KURYLIW

CHESTER J. KURYLIW MSc., P. ENG.
CONSULTING GEOLOGIST
Author of Report 223 MINTO DR.
Address KENORA, ONT.

Covering Dates of Survey LAND AUG.2 – OCT 3, 73 LAKE MAR. 11 – 26 1974
(linecutting to office)

Total Miles of Line cut LAND GRID 22.4 miles
LAKE GRID 9.3 miles

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	--Electromagnetic	
	--Magnetometer	40 (except 20 days marked)
	--Radiometric	
ENTER 20 days for each additional survey using same grid.	--Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE May 24 74 SIGNATURE: C. J. Kuryliw
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications _____

Previous Surveys 2.1371 GEOLOGICAL (NO LINECUTTING CREDITS)

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
	315316
	317
	318
	319
	320
	321
	322
	323
	324
	325
	326
	327
	328 — (20 days)
	329
	330
	331 — (20 days)
	332 — (20 days)
	315343
	344
	345 — (20 days)
	346
	347
	348
	349
	350
	351
	364464
	465
	466
	467
	468

If space insufficient, attach list

TOTAL CLAIMS 31

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 1680 Number of Readings _____

Station interval 100 FEET

Line spacing 400 FEET

Profile scale or Contour intervals CONTOUR INTERVAL, 500 GAMMAS.
(specify for each type of survey)

MAGNETIC

Instrument SHARPE MF1 FLUXGATE MAGNETOMETER

Accuracy - Scale constant (±) 20 GAMMAS PER SCALE DIVISION.

Diurnal correction method BASE LINES TIED AND CORRECTED IN LOOPS TO BASE STN. LINES LOOPED AND CORRECTED TO BASE LINE.

Base station location AT 16-E, 4-S ON AN ISLAND NEAR CAMP IN FLINT LAKE.

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

File 2.1452

RECEIVED
APR 5 - 1974
PROJECTS UNIT

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey GEOPHYSICAL - MAGNETIC

Township or Area DOGPAW LAKE, DISTRICT OF KENORA

Claim holder(s) CHESTER J. KURYLIW

Author of Report CHESTER J. KURYLIW MSc., P. ENG.

Address ~~CONSULTING GEOLOGIST~~ 223 MINTO DR. KENORA, ONT.

Covering Dates of Survey Land Aug. 8-Oct. 3/73; On Lake Mar. 11-26/74
(linecutting to office)

Total Miles of Line cut Land Grid = ~~8.4~~ 9.3 miles, Lake Grid = ~~5.3~~ miles.

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	40
--Radiometric	except claims
--Other	marked (X)
Geological	20 days each
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer ____ Electromagnetic ____ Radiometric ____
(enter days per claim)

DATE: Mar. 26, 1974 SIGNATURE: C. J. Kuryliw
Author of Report or Agent

PROJECTS SECTION

Res. Geol. ____ Qualifications ~~Geol~~ 63.1789 on this file

Previous Surveys 2.1371 Geological (No 63.2486 (EM+Mag) linecutting credits)

Checked by different instrument date 1967

LD

GEOLOGICAL BRANCH

Approved by ____ date ____

GEOLOGICAL BRANCH

Approved by ____ date ____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
	315316
	~~317~~
	318
	319
	320
	321
	322
	323
	324
	325
	326
	327
X	328 ⅓ not covered
	329
	330
X	331 ½
X	332 ½
	315343 ¼
	344
X	345 ⅓
	346 ¼
	347
	348
	349
	350 ¼
	351
	364464 ¼
	465
	466
	467
	468 ¼

TOTAL CLAIMS 31

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____

(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____

(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION – RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

AREA OF

DOGPAW LAKE

DISTRICT OF
KENORA

KENORA
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' Surface Rights Reservation around all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. - 1970).

	File	Date	Disposition
(43)	163473	1/3/73	surface & mining rights

File - 2.1452

NATIONAL TOPOGRAPHIC SERIES 52 F5

PLAN NO. M.2585

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

493934

CAVIAR LAKE

CORBETT LAKE

FLINT LAKE

FLINT LAKE

CEDARTREE LAKE

STEPHEN LAKE

BASE STN.

LAKE GRID BASE LINE 00N

BASE LINE 0-N

LAKE GRID 36 S BASE LINE

45-S LAKE GRID BASE LINE

38 N BASE LINE

100 N BASE LINE

INSTRUMENT: SHARPE M.F.I. FLUXGATE MAGNETOMETER
CONTOUR INTERVAL: 500 GAMMAS

FLINT LAKE CLAIM GROUP

DIST. OF KENORA, N-W ONTARIO

PLAN

OF

MAGNETICS

SCALE: 1"= 400'

2.1452

2.1452